

## Memorandum



Date: November 25, 2003

To: Mayor and Council

From: Don Hawkes, Deputy Water Utilities Manager (X-2660)

Through: Tom Gallier, Water Utilities Manager (X-2625)

Subj: Johnny G. Martinez Water Treatment Plant Expansion Project Update

The construction contract for the first phase of the Johnny G. Martinez Water Treatment Plant (JGMWTP) expansion will be before Council for approval on December 4, 2003. This phase of the project is primarily related to security of our treatment plants and includes the following facilities:

- Replacement of gaseous chlorine with on-site generated sodium hypochlorite for disinfection at both WTP's.
- Installation of ultraviolet (UV) reactors at the South Tempe Water Treatment Plant for primary disinfection.
- Removal of four stories of the chemical building tower at the JGMWTP.
- Closure of Marigold Lane to access by public vehicles and construction of a new manned guard structure to control access by authorized stakeholders including the Phoenix Zoo, SRP, Rolling Hills Golf Course personnel and the WUD.
- Construction of a new access road to Canal Park and a new restroom facility in the park.
- Lighting and accessible trail amenities in the park.

Most of these facilities are shown on the attached graphic. Other phases currently under design include a new 60" diameter water line and a new reservoir and pump station. The future and final phase of this multi-year project is the 30 MGD treatment capacity expansion of the plant which will include primary UV disinfection at the JGMWTP.

Throughout the design process we have worked with all of the stakeholders around us: the North Tempe Neighborhood Association, the Phoenix Zoo, SRP, the Arizona State Historical Society, Tempe Parks and Recreation, the Tempe Parks Board, and the Papago Salado Association. Naturally, with this many stakeholders there have been compromises by all parties. But through a long series of facilitated meetings we have been able to reach agreement, meet the design goals of the project, and save considerable \$'s over other studied alternatives.

To further enhance the Papago Park area that surrounds the plant, we propose to dedicate a portion of those cost savings to further enhancements within the park.

The Arizona State Historical Society applied for and received a Water Protection Fund (WPF) grant to preserve and enhance the Papago Green Line, the densely vegetated riparian zone west of the State Historical Museum. Due to budget constraints, the Society was having difficulty administering the grant and getting the project moving. Through an Inter-Governmental Agreement (IGA) the management of the grant was transferred to the WUD. As you can see from the attached graphic, the new 60" waterline crosses the Greenline and is adjacent to nearly its entire length. This alignment was selected through a facilitated partnering process with the NTNA, the Historical Society and the Parks Board. It is the most desirable route hydraulically and also the most cost effective saving an estimated \$328,000. However, because of the disruption to the park and the Greenline, and with the opportunity to significantly improve the area, we would propose to couple a portion (\$250,000) of the estimated cost savings realized by selecting this route with the WPF grant funds to enhance this area of the park.

Lastly, to fully implement the security provisions recommended in our EPA Vulnerability Assessment, we need to eliminate all non-essential traffic on the WTP sites. For the JGMWTP this translates to a new drive that provides access to the WUD Administration Building without crossing through the plant. We have also conducted facilitated meetings with stakeholders on this issue and propose a solution that provides wins for all.

As shown on the attached graphic, a new driveway across the recently acquired Eisendrath property would provide a south access to the WUD Administration Building parking area. With the future plant expansion the existing pond south of the WUD Administration Building is removed from the water treatment process and could become a park amenity. This enables us to pull back the plant security perimeter, making it more manageable for WUD and also opens up access to the Greenline. This drive would also enable a number of other enhancements:

- Better access to the Eisendrath House and a path for new utility connections (water, sewer, electric and communications) to the house.
- More traffic near the Eisendrath House with improved security of that resource.
- Public parking in a portion of the WUD Administration Building parking lot and public access to both the Eisendrath House and the Greenline trailhead area.

We have scheduled a short presentation at the December 4, 2003, Issue Review Session to discuss these issues with Council and to receive direction.

